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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/755,846	01/12/2004	Wolfgang Singer	637.0003USQ	8440
759 Charles N.J. Rugg	•	EXAMINER		
OHLANDT, GRE	EELEY, RUGGIERO &	VANORE, DAVID A		
10th FLOOR ONE LANDMARK SQUARE			ART UNIT	PAPER NUMBER
STAMFORD, CT	-	2881		
SHORTENED STATUTORY I	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 01/19/2007		01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<del></del>	Application No.	Applicant(s)				
	10/755,846	SINGER ET AL.				
Office Action Summary	Examiner	Art Unit				
	David A. Vanore	2881				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
	Responsive to communication(s) filed on 13 November 2006.					
,—						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-41 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 33-41 is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6) Claim(s) 1 is/are rejected.					
7)⊠ Claim(s) <u>2-32</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
6) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>12 January 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No. 10/201652.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) Interview Sumn Paper No(s)/Ma					
3)  Information Disclosure Statement(s) (PTO/SB/08)						

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### **DETAILED ACTION**

# Response to Arguments

1. Applicant's arguments filed November 13, 2006 have been fully considered but they are not persuasive.

- 2. Applicant's arguments with respect to amended claim 1 are not persuasive because Item 11 comprises a projection optical system having two spherical reflection mirrors, which reflect light as illustrated in Fig. 1 for example. Item 11 clearly reflects light incident thereon.
- 3. Applicant's arguments, see pages 12-14 of the remarks, filed November 13, 2006, with respect to amended claims 36-41 have been fully considered and are persuasive. The rejection of claims 36-41 has been withdrawn.

#### Election/Restrictions

4. Claims 34-35 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 34-35, directed to an allowable product, previously withdrawn from consideration as a result of a restriction requirement, claims 34-35 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 9/14/05 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be

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subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 stands rejected under 35 U.S.C. 102(b) as being clearly anticipated by Miyake et al. (USPN 6,038,279)
- Regarding claims 1 Miyake et al. teaches an x-ray exposure apparatus, where x-rays have a wavelength less than or equal to 193 nanometers, comprising first and second light sources illustrated in Fig. 1 which illuminate different areas of optical element Item 11 (Col. 5), and an optical element (Items 3 or 10) which collect and condense light onto a reticle (Item 4) in a reticle plane, an illumination system (Item 3 and 14) for illuminating the plane, a carrier system (Item 8), a projection optical system which images the reticle (or mask) onto a light sensitive substrate (Item 6) to expose said substrate and thereby expose a pattern into said substrate, and performs the same essential function as a projection objective lens.
- 8. The light sources (Items 9) illuminate different areas of optical element Item 11 at different points and comprise two separate laser sources, thus providing light under two

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separate and different operating conditions, where the system superimposes light beams from the sources, illustrated in Fig. 1, to reduce coherence of the illumination system (Col. 5 Lines 61-68).

# Allowable Subject Matter

- 1. Claims 33-41 are allowed.
- 2. Claims 2-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. The prior art fails to teach or suggest the plural light sources recited in claim 1 and 33, where the optical element comprises a raster element which combines separate light bundles into a single light bundle as recited in claim 33, or where the raster element partitions light from the first and second source into plural light channels as recited in claim 2.
- 5. Claims 3-32 depend on claim 2 and are therefore allowable by virtue of their dependency.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Vanore whose telephone number is (571) 272-2483. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David A Vanore Primary Examiner Art Unit 2881

dav